

CLAIMS

We claim:

1. A method for providing surveillance within a communication network, the communication network providing communication services for a subscriber, wherein the subscriber accesses the communication network via an access network, the method comprising the steps of:

10 receiving a request for surveillance services from a requesting agency;

receiving trigger information associated with surveillance services in response to a trigger event;

15 generating a duplicate of call information associated with a surveillance target in response to the trigger information; and

transmitting the duplicate of call information to the requesting agency.

2. The method of claim 1, wherein the trigger information associated with surveillance services comprises one of a release to pivot capability (RTP) stream endpoint, a vocoder type, a requesting agency identifier, and a requesting agency address.

25 3. The method of claim 1, wherein the trigger event comprises one of a registration, a call connection, a call termination, and a service invocation.

30 4. The method of claim 3, wherein the service invocation comprises one of a call waiting, a conference call, a call forwarding, and a message retrieval.

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5. The method of claim 1, wherein the access network comprises a radio access network.

6. A communication network providing communication services for a subscriber, the communication network comprising:

5 an access server, the access server providing an interface between the communication network and an access network;

a relay client element interfaced with the access server, the relay client providing communications delivery services within the communication network;

10 a surveillance server, the surveillance server being interfaced with the relay client; and

a gateway element, the gateway element linking the communication network to an associated network;

15 wherein responsive to the surveillance server, the relay client generates a duplicate of call information to the gateway element for communication to the associated network.

7. The communication network of claim 6, wherein the 20 call information comprises one of bearer data and call signaling data.

8. The communication network of claim 6, wherein the relay client comprises a conference feature server.

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9. The communication network of claim 6, wherein the surveillance server is part of a core network.

10. The communication network of claim 9, wherein the 30 core network comprises a packet data network.

11. The communication network of claim 9, wherein the core network further comprises a feature server, and wherein the surveillance server is interfaced with the feature server.

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12. The communication network of claim 11, wherein the feature server comprises one of a billing server, a location server, a profile server and a short message server.

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13. The communication network of claim 6 further comprising a subscriber information database, and wherein the subscriber information database includes a data structure including subscriber surveillance data.

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14. The communication network of claim 6, wherein the surveillance server is interfaced to an authentication authority element and the authentication authority element authenticates the request for surveillance services from the requesting agency.

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15. The communication network of claim 6, wherein the access network comprises a radio access network.

16. In a communication network providing communication services for a subscriber, wherein the subscriber accesses the communication network via an access network, and wherein a server operates in accordance with a computer program 5 embodied on a computer-readable medium for providing surveillance within the communication network, the computer program comprising:

a first routine that directs the server to receive a request for surveillance services from a requesting agency;

10 a second routine that directs the server to receive trigger information associated with the subscriber;

a third routine that directs the server to generate a duplicate of call information associated with the subscriber in response to the trigger information; and

15 a fourth routine that directs the server to transmit the duplicate of call information to the requesting agency.

17. The computer program of claim 16, wherein the trigger information comprises one of a release to pivot 20 capability (RTP) stream endpoint, a vocoder type, a requesting agency identifier, and a requesting agency address.

18. The computer program of claim 16, wherein the 25 call information comprises one of bearer data and call signaling data.

19. The computer program of claim 16, wherein the access network comprises a radio access network.

20. A method for providing surveillance within a communication network, wherein the communication network providing communication services for a subscriber, and wherein the subscriber accesses the communication network 5 via an access network, the method comprising the steps of:

receiving a request for surveillance services from a requesting agency;

receiving an authentication message for the request;

10 receiving trigger information associated with surveillance services in response to a trigger event; and

transmitting a surveillance message to a core network in response to the trigger information, the surveillance message includes information for generating a duplicate of call information associated with the subscriber,

15 wherein the core network generates and transmits the duplicate of call information to the requesting agency.

21. The method of claim 20, wherein the trigger information associated with surveillance services comprises 20 one of a release to pivot capability (RTP) stream endpoint, a vocoder type, a requesting agency identifier, and a requesting agency address.

22. The method of claim 20, wherein the call 25 information comprises one of bearer data and call signaling data.

23. The method of claim 20, wherein the access network comprises a radio access network.

24. A communication network for providing communication services to a subscriber, wherein the subscriber accesses the communication network via an access network, the communication network comprises:

5 a core network, the core network including an access server for interfacing the core network with the access network and a gateway element linking the core network to an associated network; and

10 a surveillance server, the surveillance server including an interface with the core network;

wherein upon receipt of a request for surveillance services by the core network via the gateway element, the core network is responsive to the surveillance server for providing surveillance services to a services requesting 15 agency via the gateway element.

25. The communication network of claim 24, wherein the surveillance server is coupled to an authentication authority element and the authentication authority element 20 authenticates the request for surveillance services from the requesting agency.

26. The communication network of claim 24, wherein the access network comprises a radio access network.

27. In a communication network providing communication services for a subscriber, wherein the communication network providing communication services for a subscriber, and wherein a server operates in accordance with a computer 5 program embodied on a computer-readable medium for providing surveillance within the communication network, the computer program comprising the steps of:

a first routine that directs the server to receive a request for surveillance services from a requesting agency;

10 a second routine that directs the server to receive an authentication message for the request;

a third routine that directs the server to receive trigger information associated with surveillance services in response to a trigger event; and

15 a fourth routine that directs the server to transmit a surveillance message to a core network in response to the trigger information, the surveillance message includes information for generating a duplicate of call information associated with the subscriber,

20 wherein the core network generates and transmits the duplicate of call information to the requesting agency.

28. The computer program of claim 27, wherein the trigger event comprises one of a registration, a call 25 connection, a call termination, and a service invocation.

29. The computer program of claim 28, wherein the service invocation comprises one of a call waiting, a conference call, a call forwarding, and a message retrieval.